

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (original) A method of transmission, comprising:

- (a) providing a set of N symbols where N is an integer greater than 1;
- (b) providing $M-1$ transformations of said set of N symbols where M is an integer greater than 1;
- (c) transmitting said set of N symbols on N subcarriers in a burst from a first antenna; and
- (d) transmitting each of said $M-1$ transformations of set of N symbols on N subcarriers in a burst from a corresponding one of $M-1$ antennas.

Claim 2 (original) The method of claim 1, wherein:

- (a) said set of N symbols includes pilot symbols and data symbols.

Claim 3 (original) The method of claim 2, wherein:

- (a) M equals 2; and
- (b) said $M-1$ transformations includes a pairwise rotation and complex conjugation of two of said set of N symbols.

Claim 4 (original) The method of claim 3, wherein:

- (a) said symbols are QAM symbols.

Claim 5 (original) The method of claim 2, wherein:

- (a) N equals 64; and
- (b) 48 of said N symbols are data symbols.

Claim 6 (original) The method of claim 4, wherein:

- (a) said set of N symbols is partitioned into $N/2$ pairs of symbols (a_i, b_i) ; and
- (b) said $M-1$ transformation transforms the pairs (a_i, b_i) into the pairs $(-b_i^*, a_i^*)$.

Claim 7 (original) A method of transmission, comprising:

- (a) providing first and second sets of N symbols where N is an integer greater than 1;
- (b) providing $M-1$ transformations of said first set of N symbols and said second set of N symbols where M is an integer greater than 1;
- (c) transmitting said first and second sets of N symbols on N subcarriers in a first and a second burst from a first antenna; and
- (d) transmitting each of said $M-1$ transformations of set of N symbols on N subcarriers in a pair of bursts from a corresponding one of $M-1$ antennas.

Claim 8 (original) The method of claim 7, wherein:

- (a) said set of N symbols includes pilot symbols and data symbols.

Claim 9 (original) The method of claim 8, wherein:

- (a) M equals 2; and
- (b) said $M-1$ transformations includes a pairwise rotation and complex conjugation of two of said set of N symbols.

Claim 10 (original) The method of claim 9, wherein:

- (a) said symbols are QAM symbols.

Claim 11 (original) The method of claim 8, wherein:

- (a) N equals 64; and
- (b) 48 of said N symbols are data symbols.

Claim 12 (original) The method of claim 10, wherein:

- (a) said set of N symbols is partitioned into $N/2$ pairs of symbols (a_i, b_i) ; and
- (b) said $M-1$ transformation transforms the pairs (a_i, b_i) into the pairs $(-b_i^*, a_i^*)$.